

Product datasheet for RC214439

AKAP12 (NM_144497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP12 (NM_144497) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP12
Synonyms:	AKAP250; SSeCKS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214439 representing NM_144497 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC214439 representing NM_144497
Red=Cloning site Green=Tags(s)

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LTES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6168_g08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144497

ORF Size: 5052 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_144497.2](#)

RefSeq Size: 6287 bp

RefSeq ORF: 5055 bp

Locus ID: 9590

UniProt ID: [Q02952](#)

Cytogenetics: 6q25.1

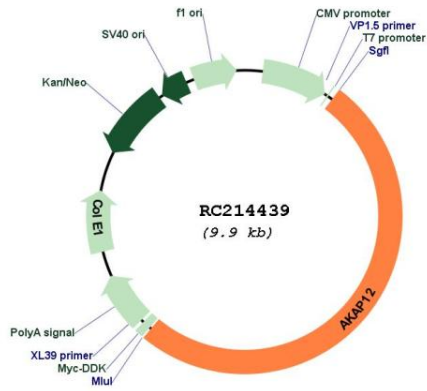
Domains: PkinA_anch

Protein Families: Druggable Genome

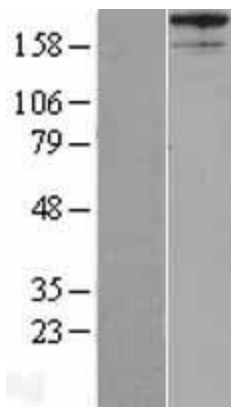
MW: 181.5 kDa

Gene Summary: The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinases A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214439



Western blot validation of overexpression lysate (Cat# [LY403393]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214439 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).